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DGSIT Program Presentation for COMMANDER, THIRD FLEET C4I WATERFRONT CONFERENCE



CDR Mark Fickel, Program Director
mark.fickel@navy.mil (757) 417-6771 x3

Mr. Mike Wenck, DGSIT PAC Surface Combatant Coord.
mike.wenck@navy.mil (619) 437-5275

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DGSIT

Mission

Deploying Systems

Integration Testing is a ***CFFC/HQMC directed, COMNAVNETWARCOM executed program*** designed to support the fleet readiness program by validating the deploying group's ***C5I Systems interoperability*** to the Numbered Fleet, MEF, Deploying Group Commanders, and ***technical Program Offices***.

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Deploying Group Systems Integration Testing

- ◆ A validation and quality assurance process
- ◆ Last look in the FRTP process (tech to operator handoff)

Charter (CLF/CPF Inst 4720.4a)

- ◆ Determine problems/validate operation
- ◆ Develop Deploying Group Test Plan

System C ***Interoperability among systems within the STRKGRU*** olution

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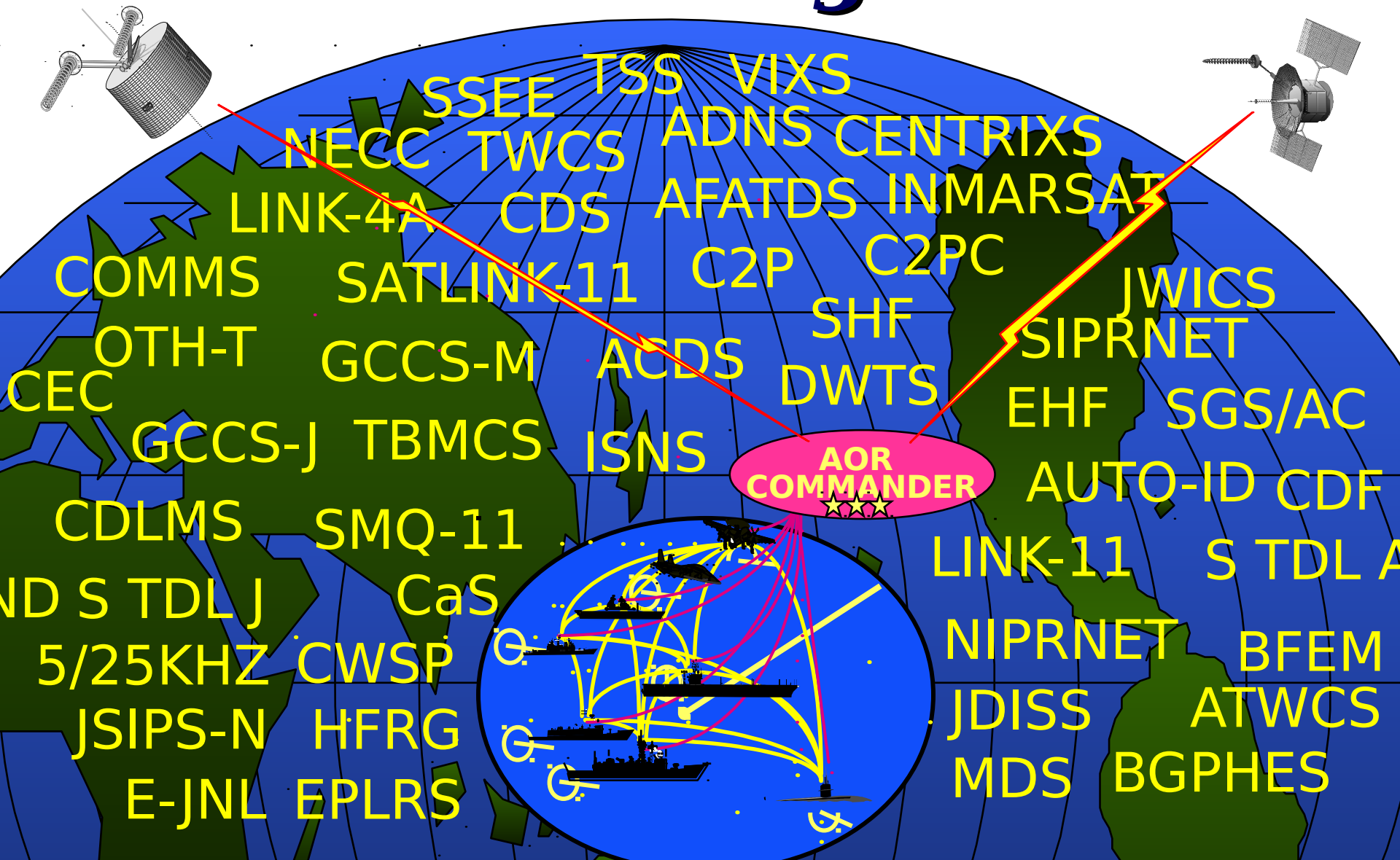
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Deployers' Challenge

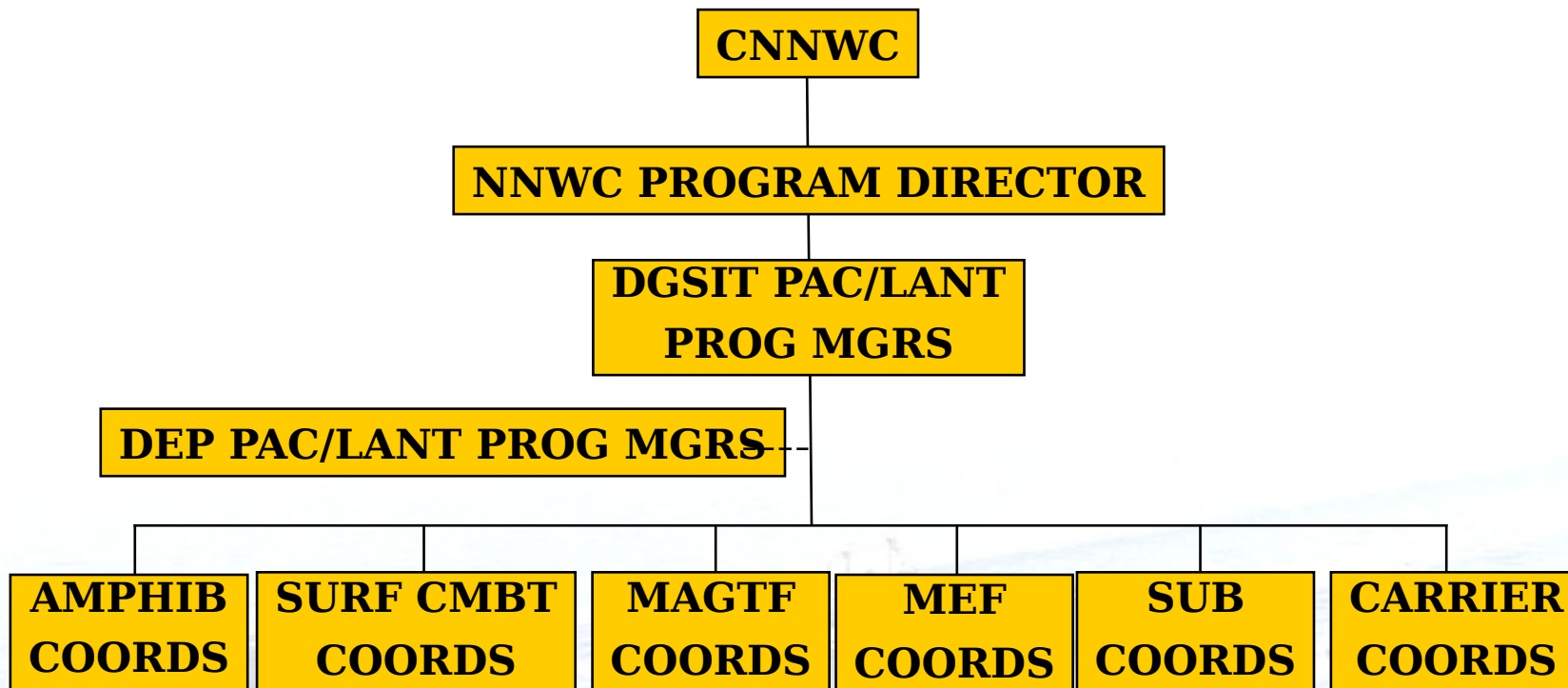




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DGSIT Team Organization



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DGSIT Process

- ◆ **Build on Previous C5ISR Efforts**
- ◆ **Develop Tailored Test Plan**
- ◆ **Conduct at Sea Testing (FIT)**
- ◆ **Identify Issues**
- ◆ **Coordinate Issue**

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Preliminary Assessment

- ◆ **Initiation/POA&M Message**
- ◆ **Baseline an individual platform's systems prior to ESG operations**
- ◆ **Define required coordination areas**
- ◆ **Actions to assist in the planning for formal testing to evaluate unit interoperability in a “**Stressed At Sea**” operational environment**
- ◆ **Tentative FIT Team requirements**

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Planning Definition Survey

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- ♦ Executive overview, brief watchstanders on DGSIT program
- ♦ Determine concerns, confirm installed systems configuration
- ♦ At-sea system evaluations/data gathering (Interviews with N/S2, N/S3, N/S4, N/S6, Key Ship's Force and MDEU/CO'S) **STRKGRU Test Plan....**

Confirm SME employment

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DGSIT FIT Requirements

- ◆ **Post TCD**
- ◆ **Installations, training, SOVTs completed**
- ◆ **At Sea**
- ◆ **Stressed Operational Environment w/ common tactical focus**

FIT application in a stressed operational environment, at sea, with Sailors and Marines using systems, will uncover interoperability problems that can only be seen in the unique ESG C2X environment...

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Established DGSIT At-Sea Execution

F L Y O N	DGSIT	F L Y O F F
	CONDUCT FINAL INTEGRATION TEST	
1	5 days	1

- ◆ Evaluates C4I/SR and Combat Systems (C5I)
- ◆ Typically requires 65 personnel per Strike Group

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◆ Coincides with CSG/ESG C2X



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Typical FTT Team Composition

Representation

Platform

SME

CVN

22

CG

9

DDG

8

FFG

4

SSN

7

MEU

15

LHD

25

LPD

8

LSD

8

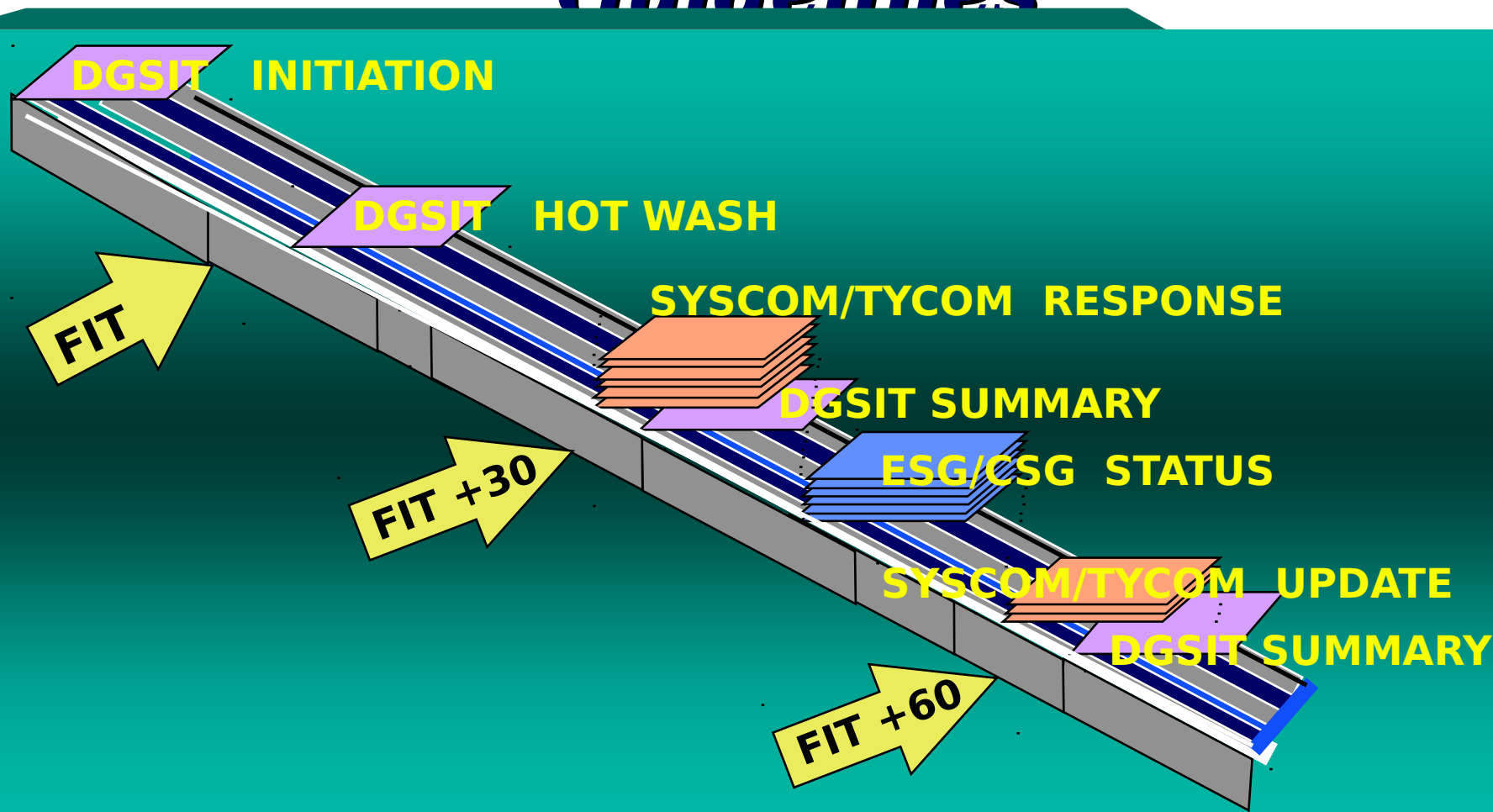
EMI	SHF
COMMS	NAVMACS
DWTS	ISNS
SINGARS	EHF/NECC
SSA (MCTSSA)	WSC-8/ADMS
ACDS/AWS/CDS	GCCS-M
EPLRS	GCCS-M SI
AFATDS	C2P
COMBAT SYSTEMS	INMARSAT
PSC-5	HAVEQUICK
ADNS	NAVSSI
SCI ADNS	INTEL/CRYPTOLOGY
UHF MDR	METOC
IOS V1	OTCIXS/GFCP
TBMCS	IOS V2/3
CEC	DATA LINKS



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Issue Reporting and Tracking Guidelines



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DGSIT Notional Timeline



INITIAL COORDINATION

Determine tentative dates / initial considerations / balance funding

Establish initial planning criteria / meetings / special logistics / Confirm

Initiation Message

PRELIMINARY ASSESSMENT (PA)

Develop POA&M / SME requirement / system installation status messages

Schedule / track configuration / review OPTASKs / review CEPs / review

MEU IM Plan

USMC assess assigned ship spaces / Begin ECSC Testing -- validate

PLANNING DEFINITION SURVEY (PDS)

Executive overview / brief watch standers on DGSIT program / Extensive

Interviews

Determine concerns / confirm installed systems configuration

FIELDING

Underway Joint, integration and interoperability testing with data

extraction

Watch station training / validation of system operations

POST-FIT

support network

Develop Hot wash report, update POA&M, assist SYSCOM / TYCOM

actions

Update issues / corrections / metrics database



Typical DGSN SOE Input



	25-Feb	26-Feb	27-Feb	28-Feb	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar
CCSG5						FOTC		FOTC		FOTC	
CVW5						MDUNECC					
					LINK		LINK				
						MDUDIRECT					
CDS15		HL		HL		HL		HL		HL	
NCTAMS								DSCS		DSCS	
KITTY HAWK					LINK		LINK	DSCS	BEEM	DSCS	BEEM
COWPENS					MDUNECC		MDUDIRECT	BEEM	FOTC	BEEM	
					LINK		LINK	HL		HL	
JOHN S MCCAIN		BEEM	BEEM		BEEM	BEEM					
					MDUDIRECT	FOTC					
					LINK	HL					
					MDUNECC	LINK					
FITZGERALD		FOTC		FOTC	LINK	BEEM	LINK				
		HL			BEEM	MDUNECC	MDUDIRECT				
VANDEGRIFT		BEEM	BEEM	FOTC	HL	LINK					

BEEM

Window to establish connectivity between designated units. SMEs will coordinate and troubleshoot via system media as required with participating units. Does not need to be deconflicted with other events. PRE-EX: NONE. ACFT: NONE.

FOTC

Window for shifting of duties. Does not need to be deconflicted with other events. PRE-EX: NONE. ACFT: NONE.

HAWKLINK

Window to conduct checks with aircraft and controlling unit. Conducted in conjunction with routine training missions. PRE-EX: NONE. ACFT: 1 HSL (not dedicated).

NECC

Window to complete transfer of MDU from KHK APS DET via NECC. PRE-EX: NONE. ACFT: NONE.

DIRECT

Window to complete transfer of MDU from KHK APS DET via EHF direct. PRE-EX: NONE. ACFT: NONE.

MULTILINK

6 hour period. Requires shifting of link roles and participants and cycling of emitters and sensors. Must be deconflicted with other events. Test Director to coordinate.

DSCS

End-to-End Bit Error Rate Test (BERT) with NCTAMS PAC. Must be deconflicted with other events. PRE-EX: NONE. ACFT: NONE.

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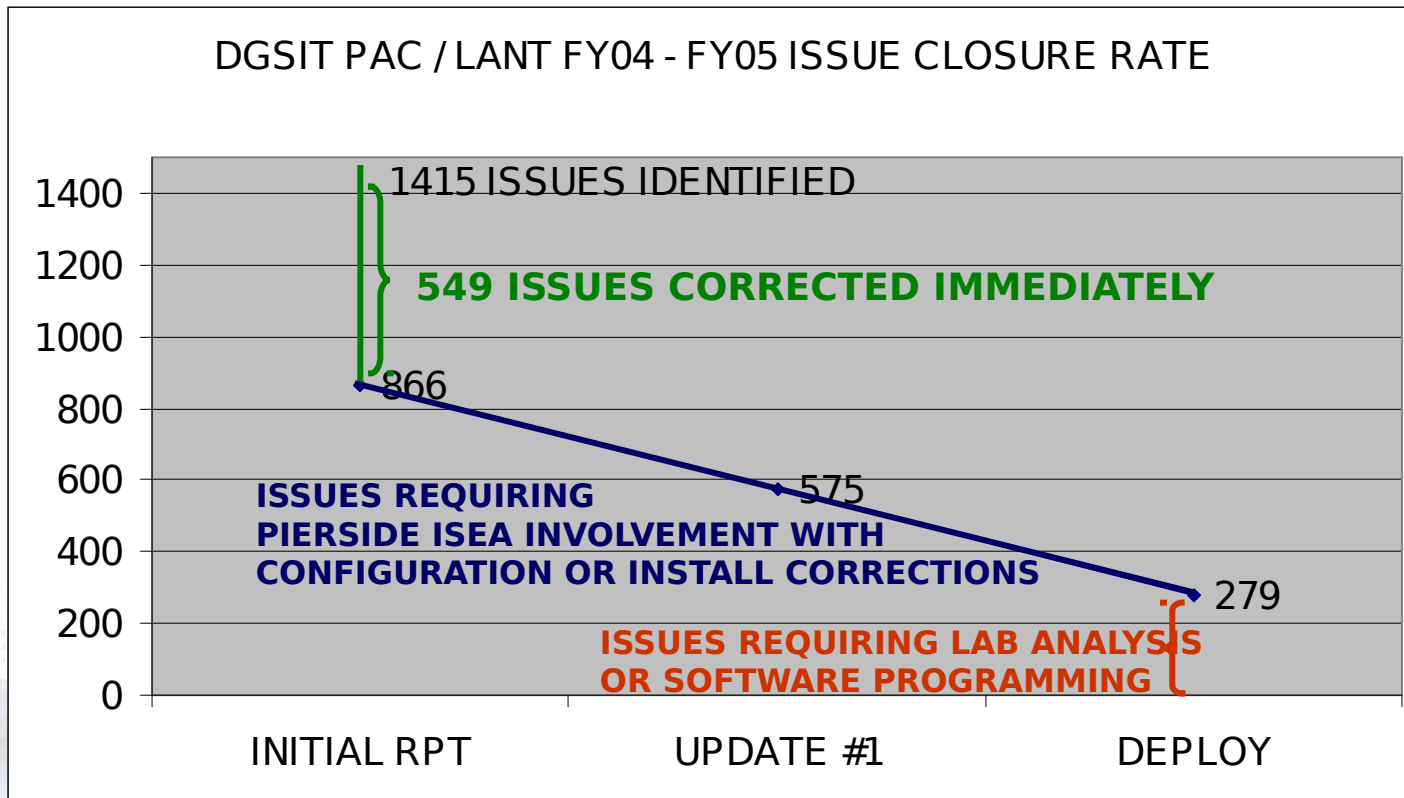
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Strike Group Issue Closure Rates



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The DGSIT Dividend

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- ◆ SMEs are experts in their field with the ability to resolve problems and answer the “hard” questions.
- ◆ Troubled systems are operated to their maximum performance rooting out the issues.
- ◆ During conduct of DGSIT, 30-40 percent of the issues are resolved on the spot by the SME’s.
- ◆ Training by SMEs is a natural

Highest dividend: DGSIT SMEs are fully utilized and their talents are put to use to maximum extent possible. Make them a part of your team effort.....

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Take Aways

In the previous 18 months:

- ◆ **1,600** system issues *identified with the Fleet user*
- ◆ **600** issues *resolved within hours of identification*
- ◆ Exercised *reach-back /help desk capabilities*
- ◆ **690** additional issues *corrected prior to deployment*
- ◆ **144** man-months of *system training provided*
- ◆ Fleet's *system confidence increased*
- ◆ **System limitations identified and workarounds provided**

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DGSIT Web Sites

▼ DGSIT

<http://www.ffc.navy.mil/index.php?id=1&secid=83>

Note: Requires CAC Card for access

◆ DGSIT PAC

<https://airpacn43.san.mrms.navy.mil/n63b/n63.htm>

For userid and password contact

mike.wenck@navy.mil





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DGSIT PAC POCS

- ♦ **DGSIT Program Manager**

Mr. Mark Boose (619)545-2026 mark.boose@navy.mil

- ♦ **DGSIT Deputy Program Manager**

Ms Heidi Boose (619)553-7931 heidi.boose@navy.mil

- ♦ **Amphibious DGSIT Coordinator**

Mr. Mike Martin (619) 556-1305 mike.martin1@navy.mil

- ♦ **Surface Combatant DGSIT Coordinator**

Mr. Mike Wenck (619) 437-5275 mike.wenck@navy.mil

- ♦ **MARFORCOM MAGTF DGSIT Coordinator**

Mr. Todd Moore (760) 763-4656 todd.moore@usmc.navy.mil

- ♦ **Submarine DGSIT Coordinator**

Mr. David Overton (808) 473-2239 dave.r.overton@navy.mil

- ♦ **I MEF DGSIT Coordinator**

Mr. Dan Bank (760)525-2737 dan.bank@usmc.mil

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***DGSIT is a tool for your use.
Training is a big by-product!***

FINAL GOAL:
**Ready for
Deployment C5I
& Combat
Systems**

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